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North-West Europe
HeatNet NWE
European Regional Development Fund



EUROPEAN UNION

District Heating roll-out in South-West Flanders, Belgium

Final conference HeatNet NWE – 15.09.2020

Flemish partners



- **City of Kortrijk**
- DHC Pilot site Kortrijk-Weide
- Feasibility studies
- Business model



- **Intermunicipal organisation Leiedal**
- Regional vision on district heating in South-West Flanders



- **Ghent University**
- DHC Technology guide
- Communication/ support Flemish partners

Speakers



Sarah Vandenbroucke
City of Kortrijk, Program Manager Climate



Bram Pauwels
HeatNet ambassador
Kortrijk



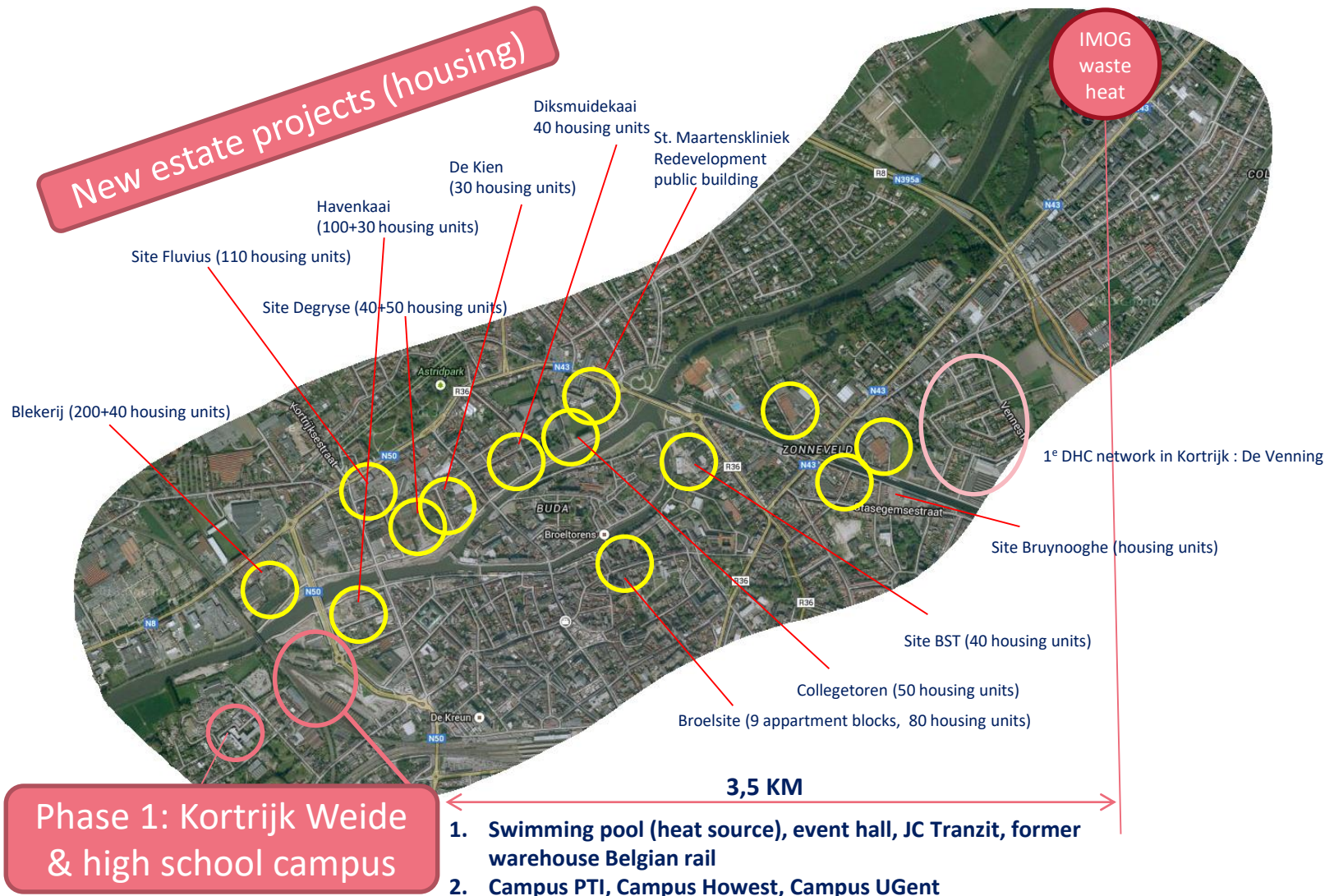
Ann Andries
City of Kortrijk, Subsidy advisor

Pilot – City of Kortrijk

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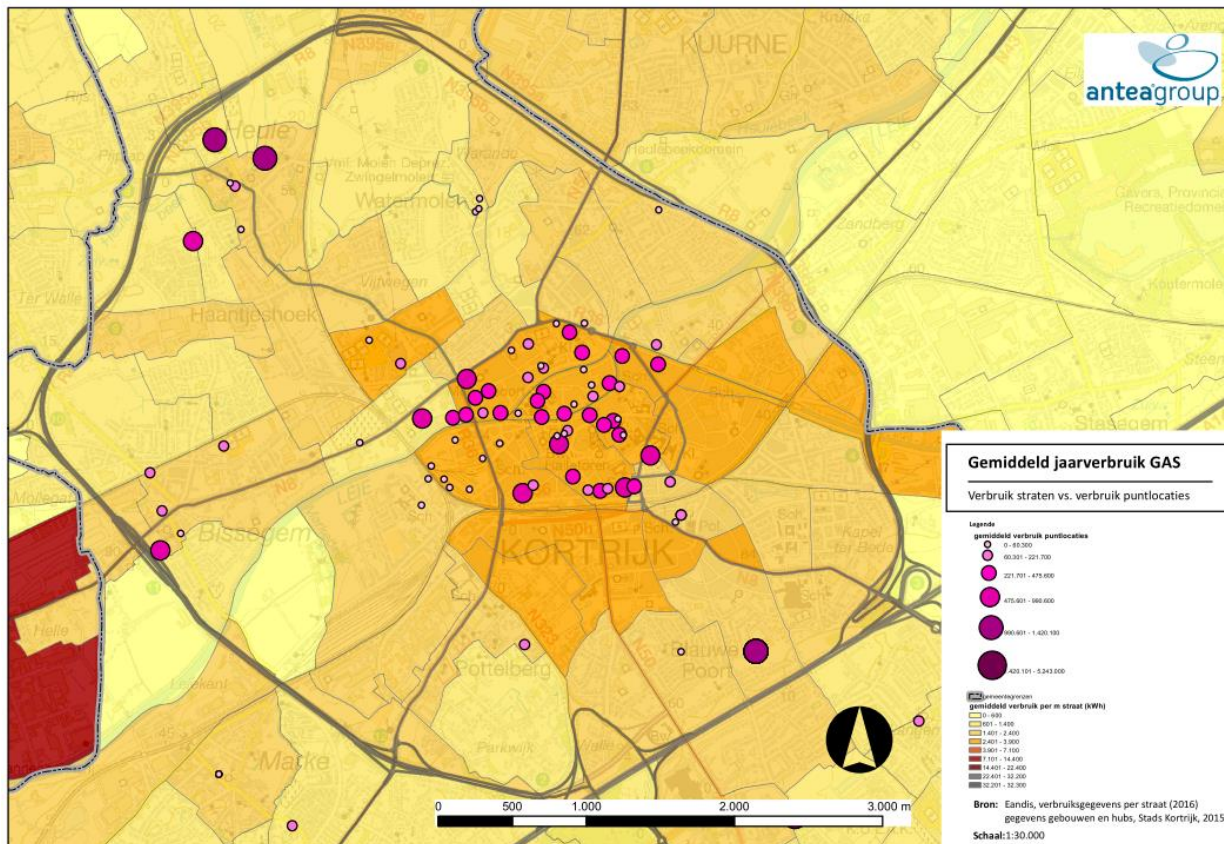


Pilot – City of Kortrijk



Pilot – City of Kortrijk

- Pilot Kortrijk – studies on bigger scenario with smaller hubs
- Not only new estate, but also existing (public) buildings
- Kortrijk Weide as learning experience / starting point / hub



High school campus

Tunnel to high school campus heat exchanger (swimming pool)



Pilot – City of Kortrijk








The future looks bright: additional hubs / roll-out throughout the city / development of ESCO or EC

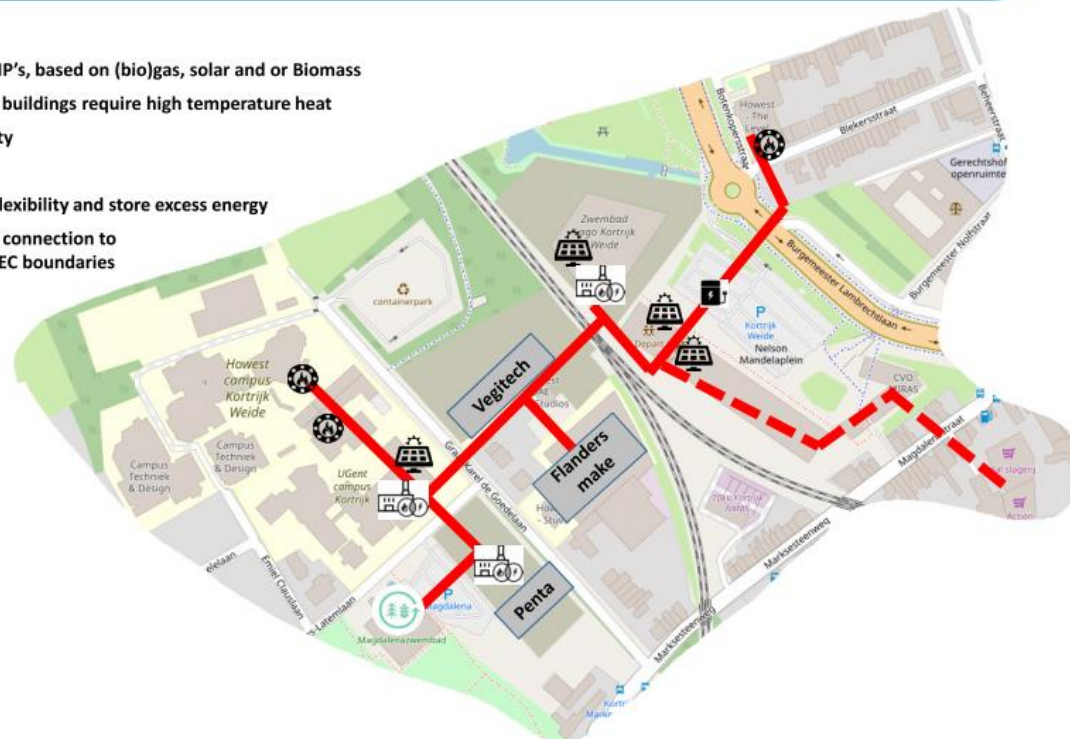
Long term LEC vision for heat and electricity



Concept:

- Low temperature heat is supplied via CHP's, based on (bio)gas, solar and or Biomass
- Heat pumps lift the temperature in case buildings require high temperature heat
- Heat pumps are driven by solar electricity
- AC and DC grid in the field
- Electrical and Thermal Storage provide flexibility and store excess energy
- Electric Vehicle charging and a potential connection to retailers provide service beyond initial LEC boundaries

-  CHP
-  Solar PV
-  Battery & EV Charging
-  Heat pump connected to low temp. heat grid
-  Biomass CHP
-  Heat and Electricity network
-  Potential connection to retailers



Lessons learned

- Pay your dues
- General costs
- Timing
- Long-term vision ↔ politics & elections
- Permanent follow-up needed, solid KPI's (design, installation, company)



Future challenges

- Role of city administration
- Energy company ↔ public procurement
- Long-term strategy
- Renewable heat source
- Renovation projects
- Timing
- Regional vision, cf. transition roadmaps Leiedal



More information?

Kortrijk district heating pilot

<http://warmtenet.kortrijk.be>

HeatNet NWE project

www.nweurope.eu/heatnet

HeatNet NWE platform

<https://guidetodistrictheating.eu/>